

**REPAIRING METHOD FOR STEEL SHEET PLATED WITH FE-ZN-BASED ALLOY**

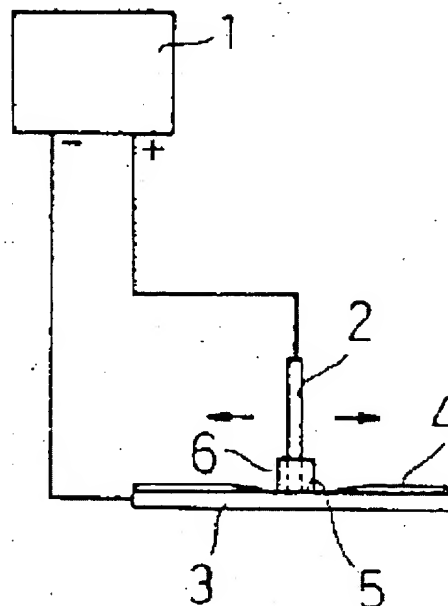
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**Abstract of JP2170997**

**PURPOSE:** To make Fe concn. of a layer plated on a raw steel sheet equal to Fe concn. of a plated layer formed by repair by controlling the frequency for moving an anode back and forth in the case of performing repair of the steel plated by Fe-Zn-based alloy with electroplating type blush plating.

**CONSTITUTION:** An insoluble anode 2 is connected to the positive terminal of a DC power source 1 and a steel sheet 3 plated with Fe-Zn-based alloy is connected to a negative terminal. An Fe-Zn-based plating soln. is applied to a repair face 5 wherein one part of the layer 4 plated on the steel sheet 3 has been peeled. The anode 2 is moved back and forth while being brought into contact with the repair face 5 and electroplating is performed. The frequency of movement back and forth is regulated to about 30-50 times per minute. This frequency of movement back and forth is regulated so that the rate of Fe in the plated layer formed by repair is made equal to the rate of Fe in the layer 4 plated on the steel sheet 3 to be repaired. For example, when the frequency of movement back and forth per minute of anode 2 is made many, Fe concn. in the plated layer formed by repair is lowered.



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